Precalculus Name:

3.1-3.5 Balloon Pop Review Period:

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| 1. **Solve for *x* (Calc OK):** 2. b.  c. |
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| 1. **Condense the following (No Calc):** 2. b. |
| 1. **Evaluate the following (No Calc):** 2. b.  c.  d.  e. |
| 1. **Write an equation to model the following (Calc OK):** 2. Logistic growth where the limit to growth is 50, the initial value is 10 and runs through the point (2,25). 3. An exponential equation that runs through the points (0,9) and (2,1). |
| 1. **Write an exponential equation to model the following. Then answer each question (Calc OK).** 2. The half-life of a substance is 15 days. If the original amount was 650 grams, how long does it take to reach 32 grams? 3. The population of a town with an original residency of 1,250 people is growing by 3.5% each year. How many years does it take for the population to quadruple? |